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FIG. 1A

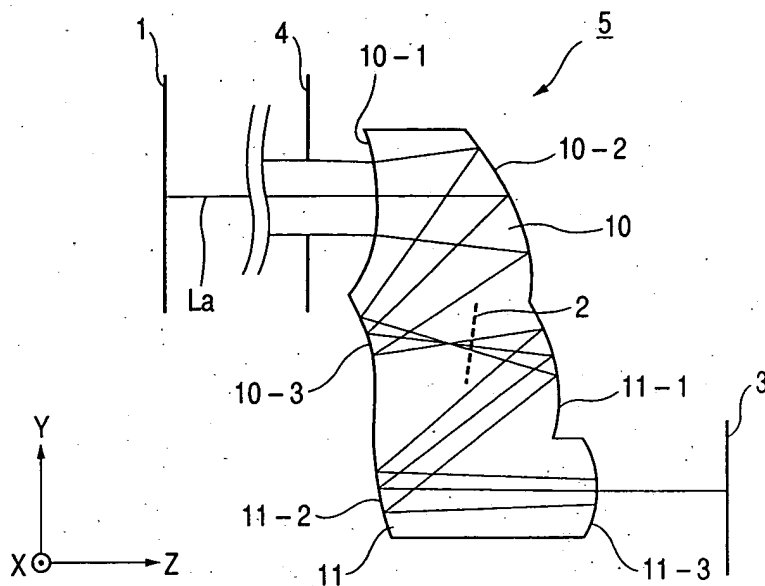
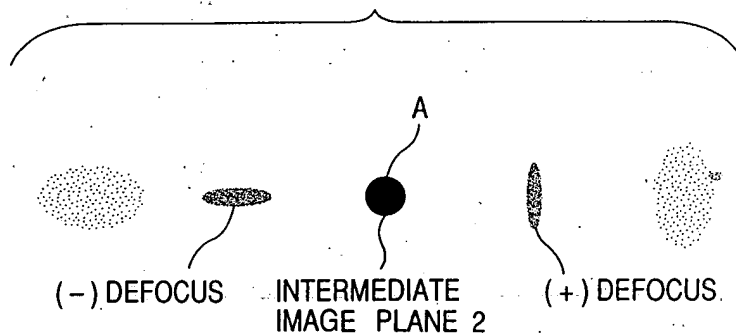


FIG. 1B



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FIG. 2A

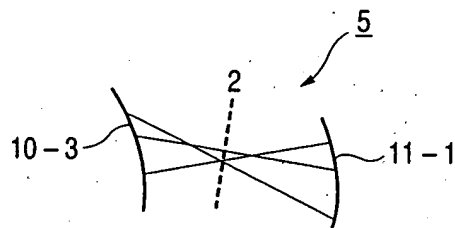
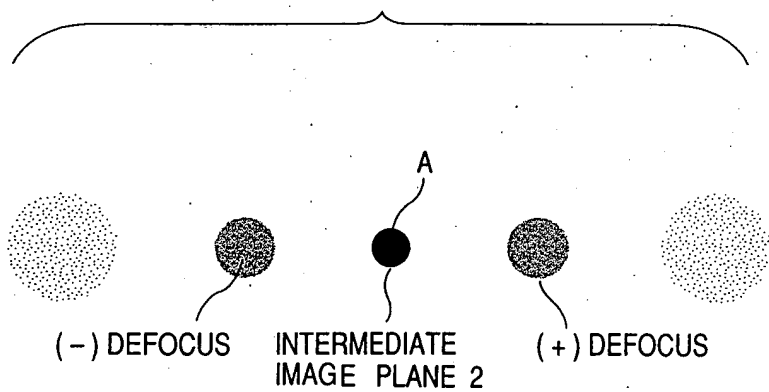


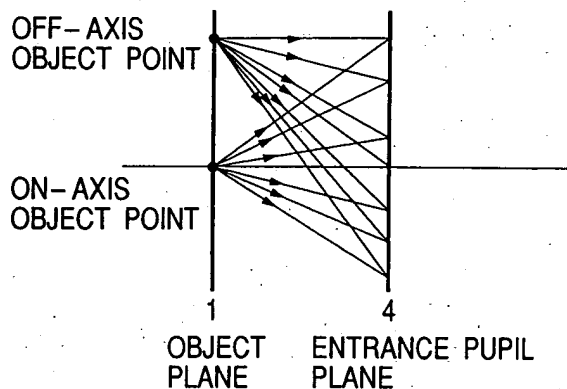
FIG. 2B



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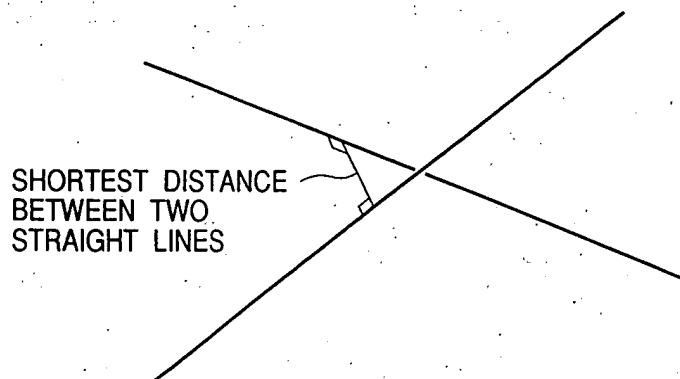
## FIG. 3A

(LIGHT BEAMS IN MERIDIAN SECTION)

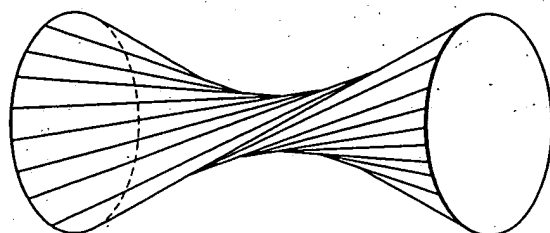


## FIG. 3B

(RELATIONSHIP OF TORSION)



## FIG. 3C

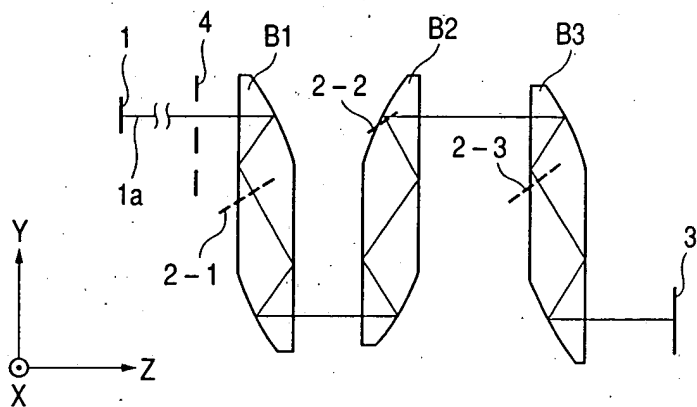


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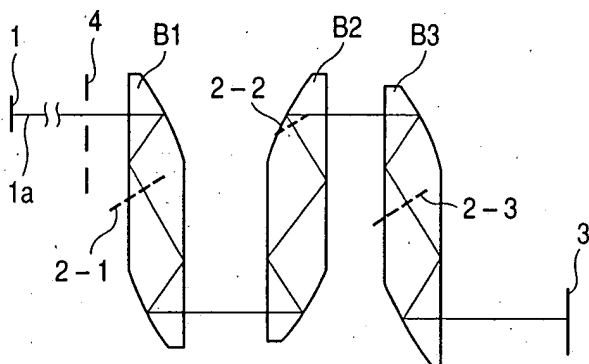
**FIG. 4A**

WIDE ANGLE END



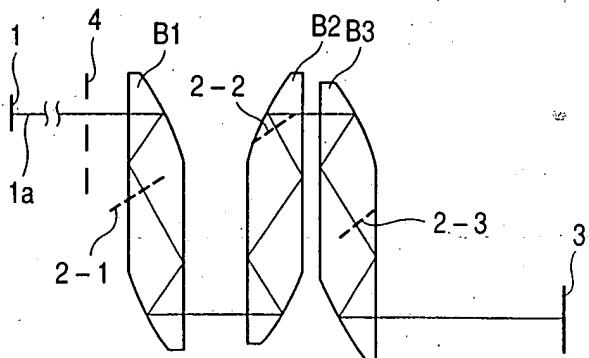
**FIG. 4B**

INTERMEDIATE POSITION



**FIG. 4C**

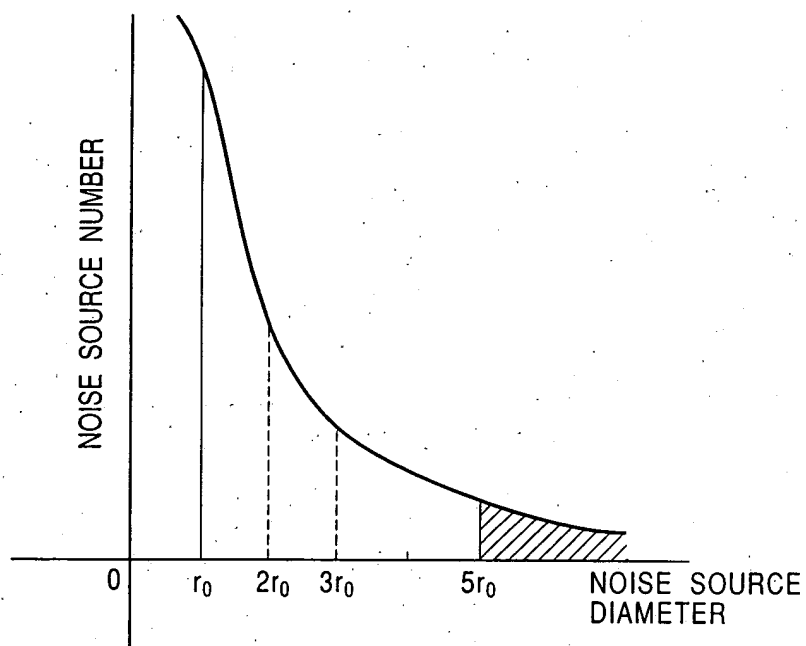
TELEPHOTO END



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FIG. 5



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FIG. 6A

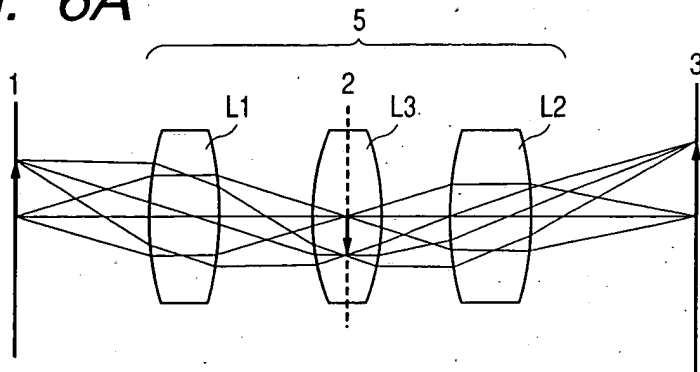


FIG. 6B

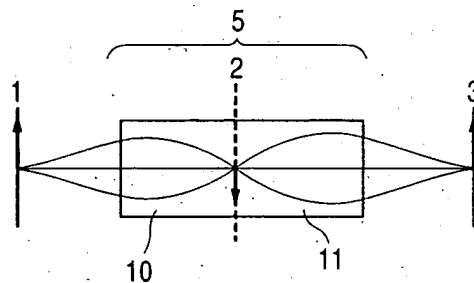
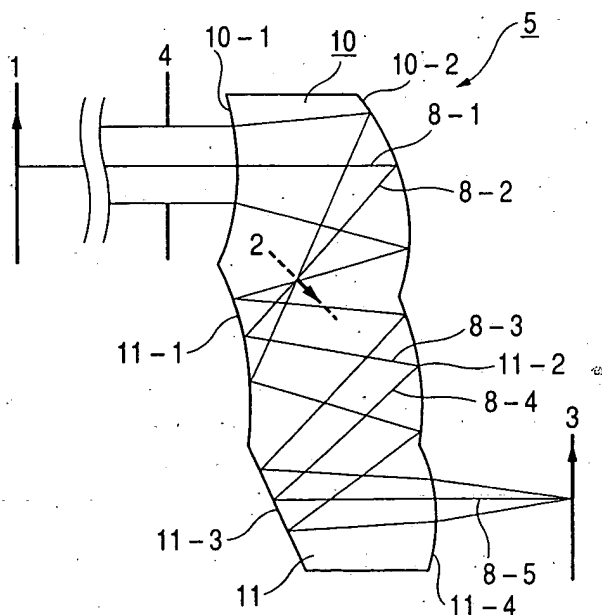


FIG. 6C



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FIG. 7A

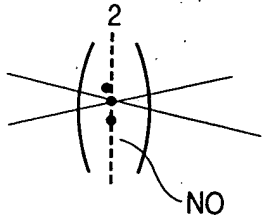


FIG. 7B

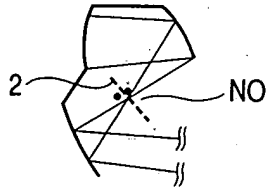


FIG. 7C

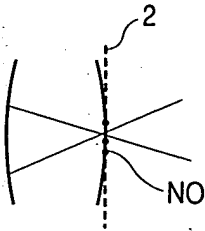


FIG. 7D

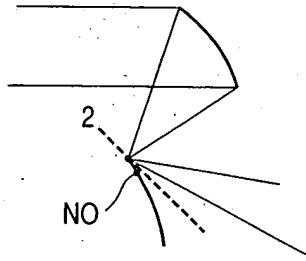
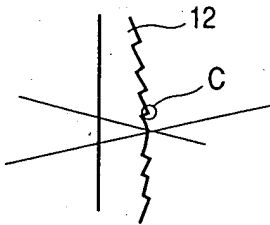
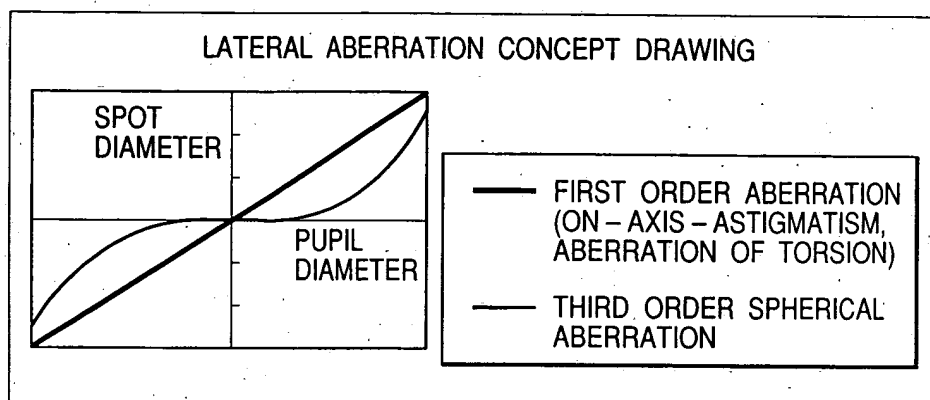


FIG. 7E



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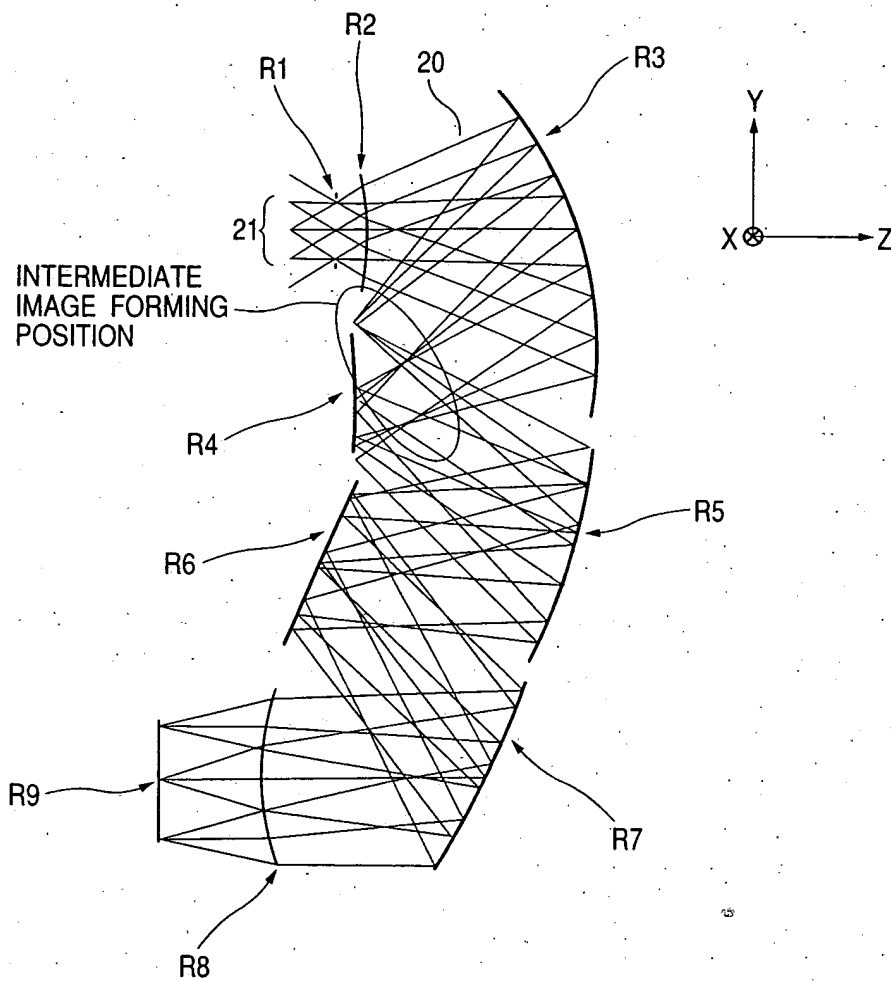
**FIG. 8**



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**FIG. 9**



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(VERTICAL INCIDENCE  
ANGLE, HORIZONTAL  
INCIDENCE ANGLE)

Y DIRECTION

X DIRECTION

FIG. 10A

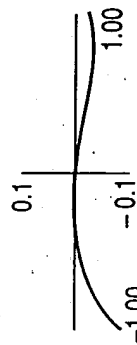
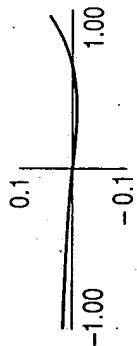


FIG. 10G

FIG. 10B

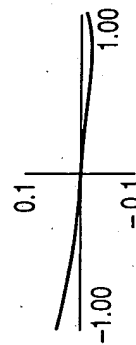
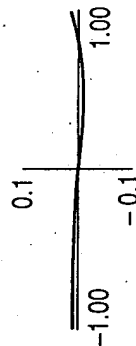


FIG. 10H

FIG. 10C

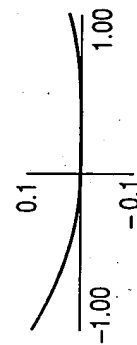
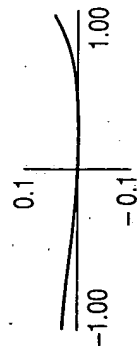


FIG. 10I

FIG. 10D

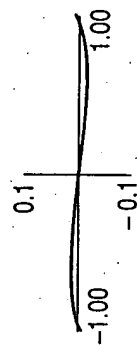
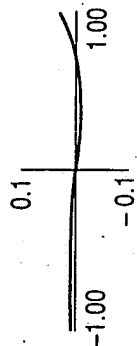


FIG. 10J

FIG. 10E

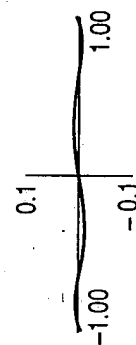
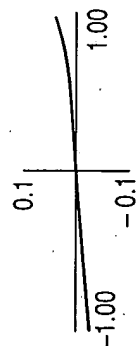


FIG. 10K

FIG. 10F

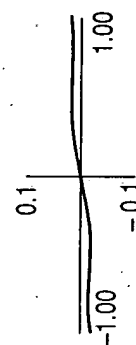
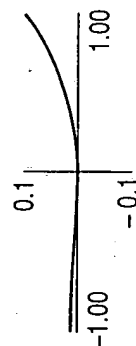
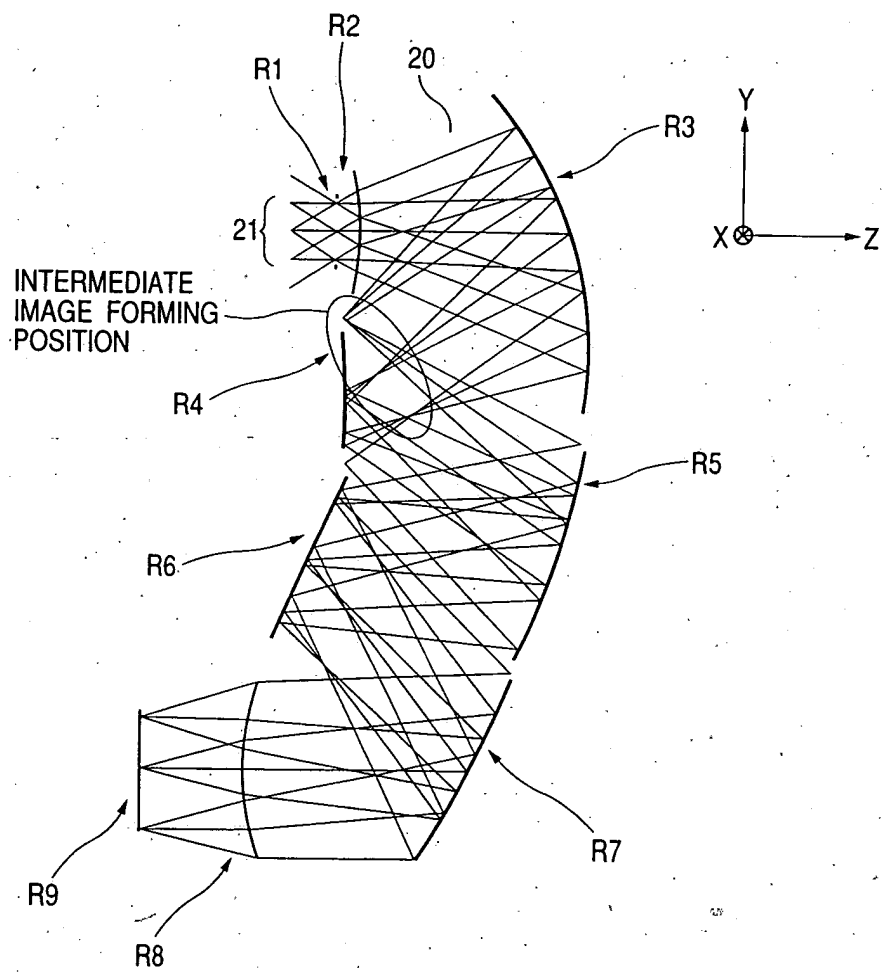


FIG. 10L

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FIG. 11



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BY DRAFTSMAN	CLASS	
	SUBCLASS	

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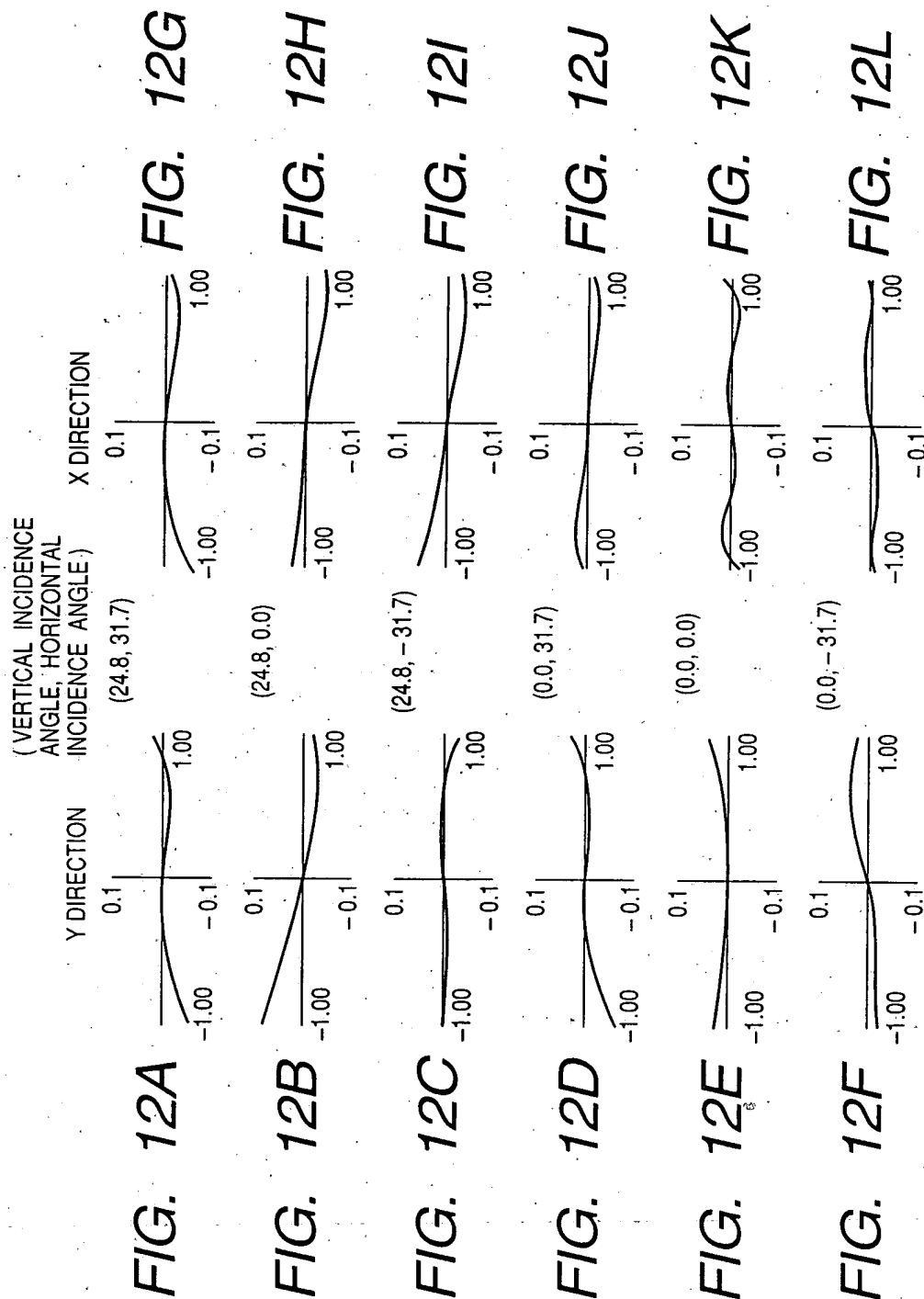
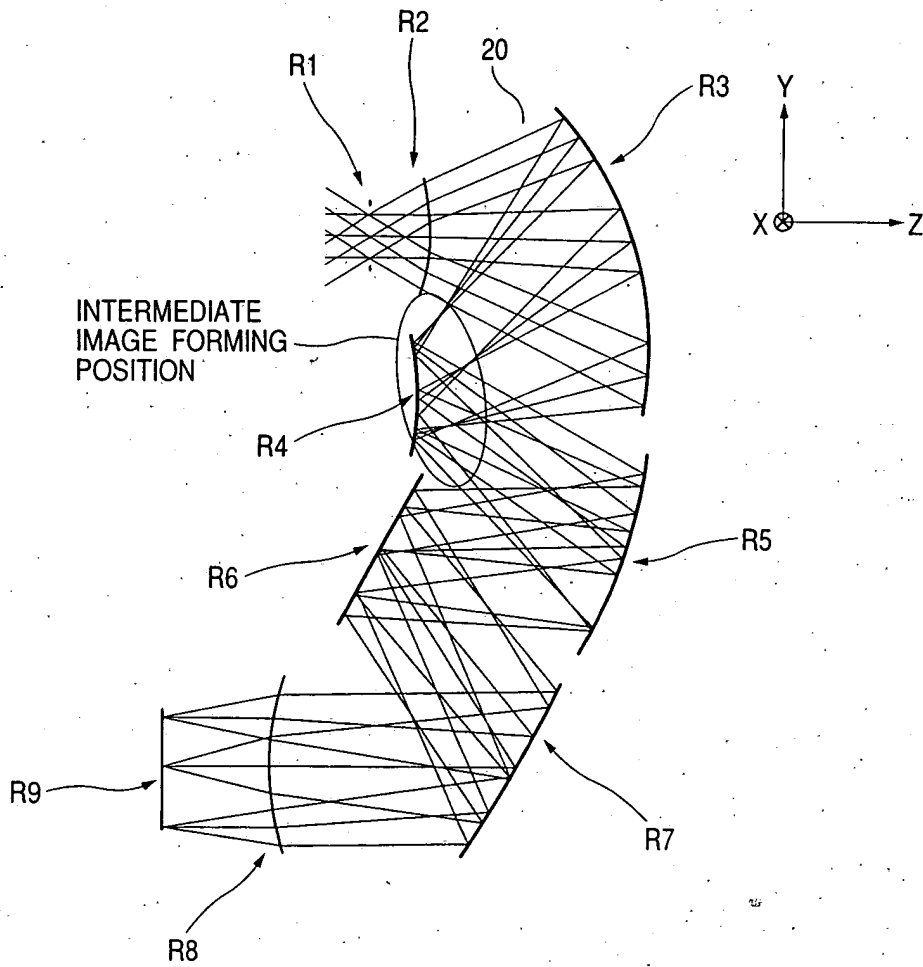
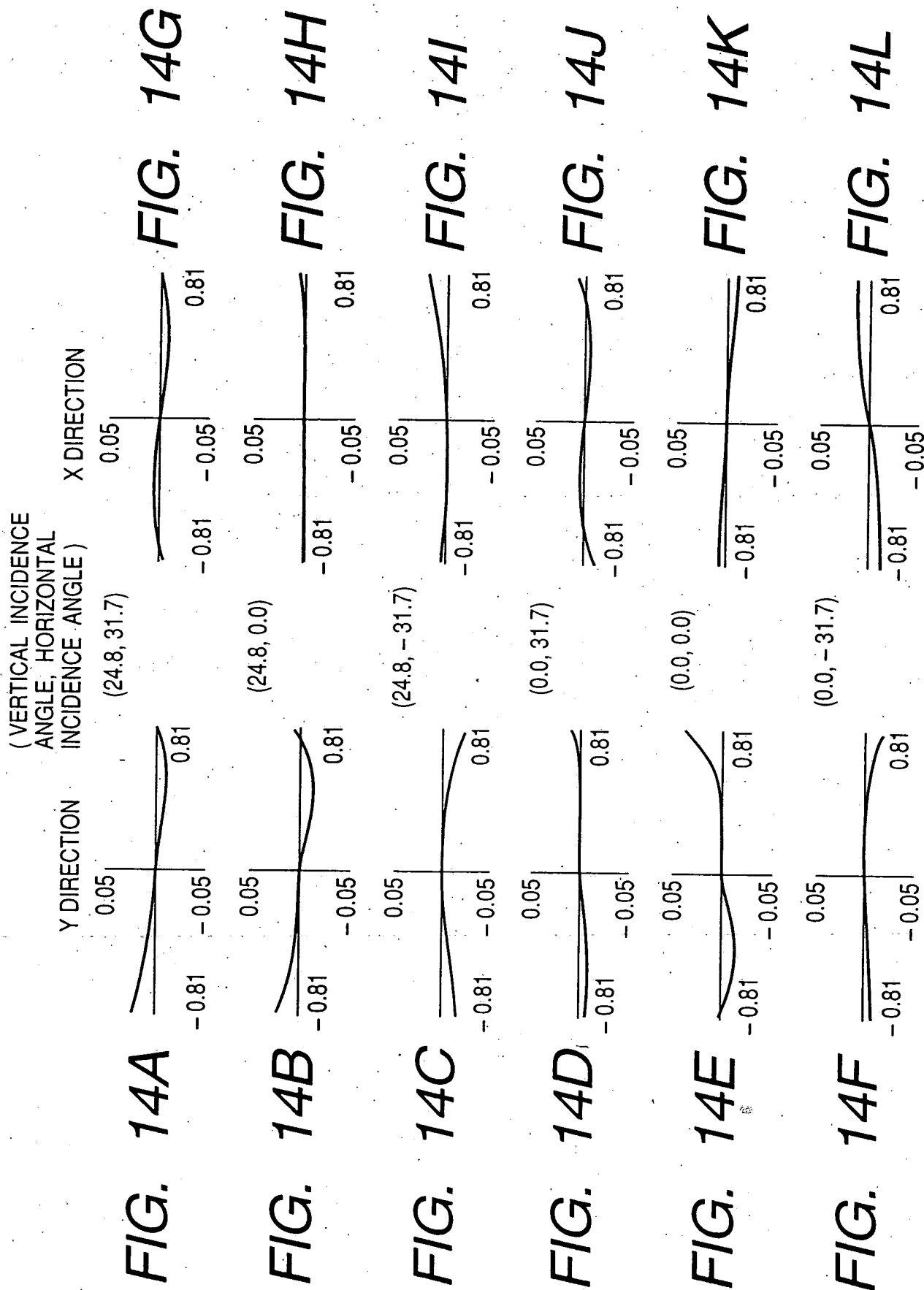


FIG. 13



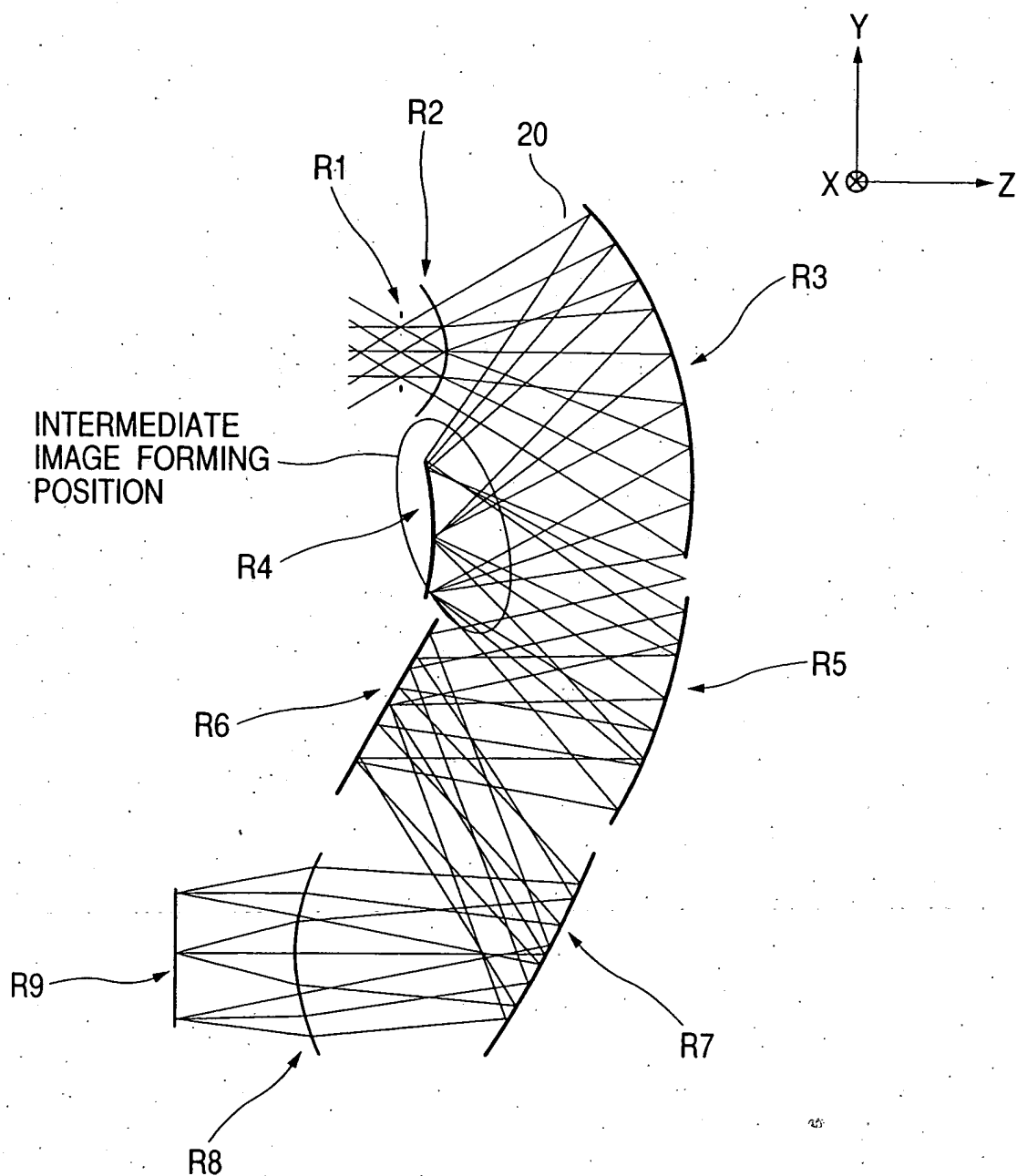
APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		



APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

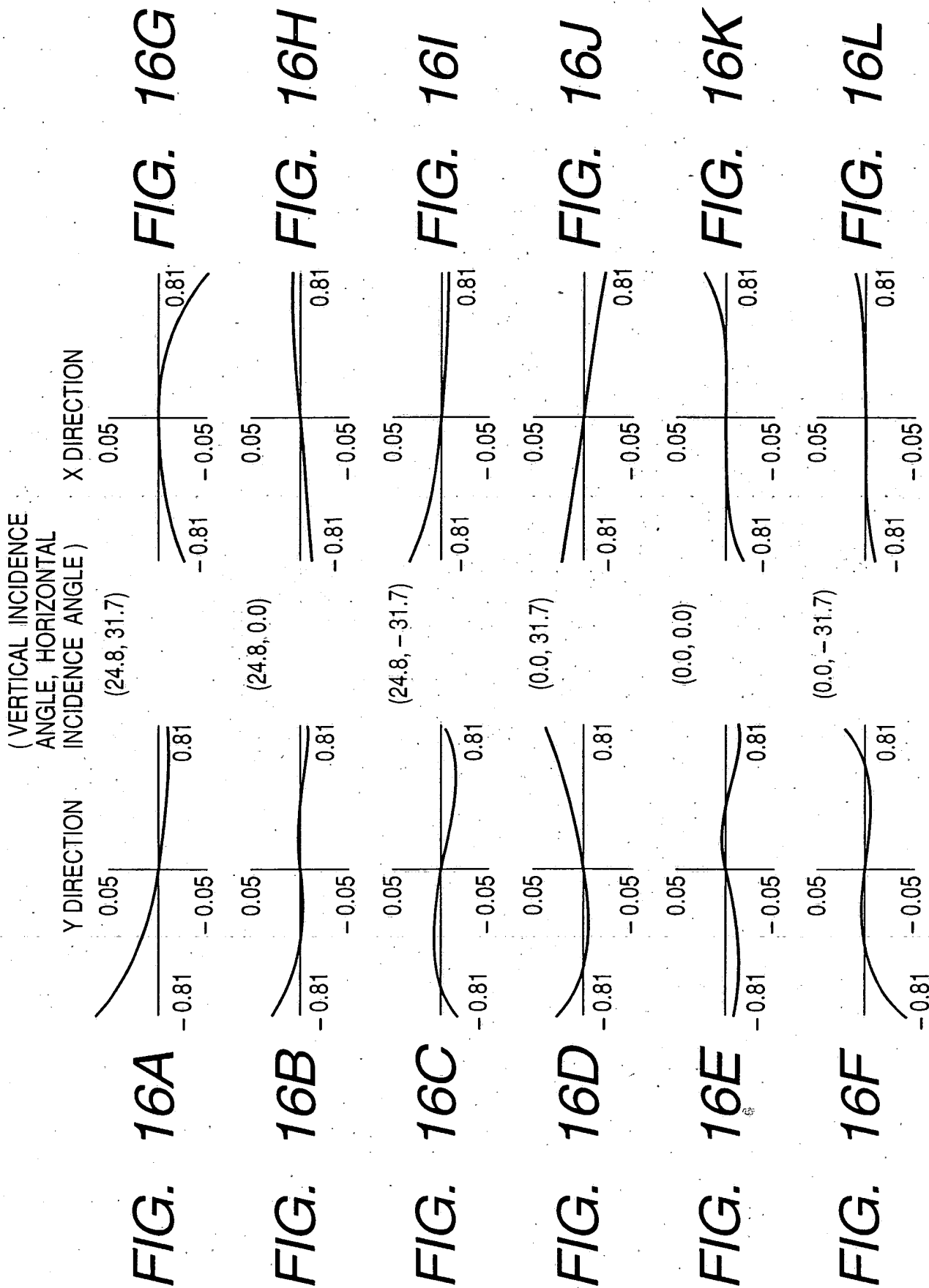
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**FIG. 15**



APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

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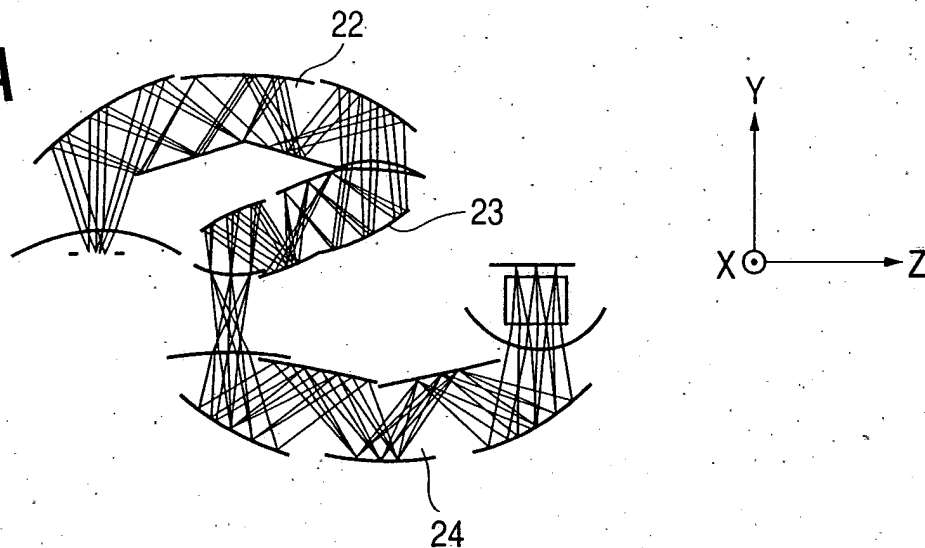




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**FIG. 17A**

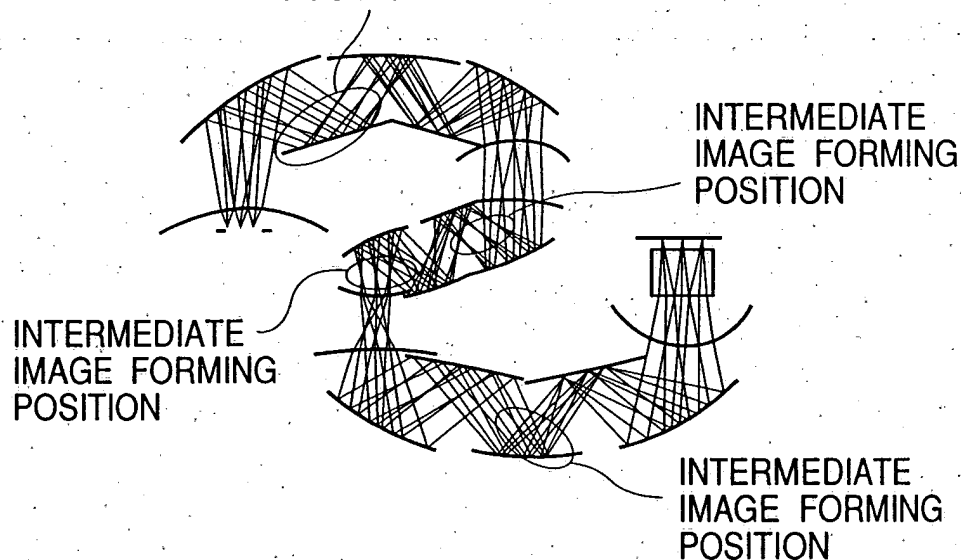
WIDE ANGLE END



**FIG. 17B**

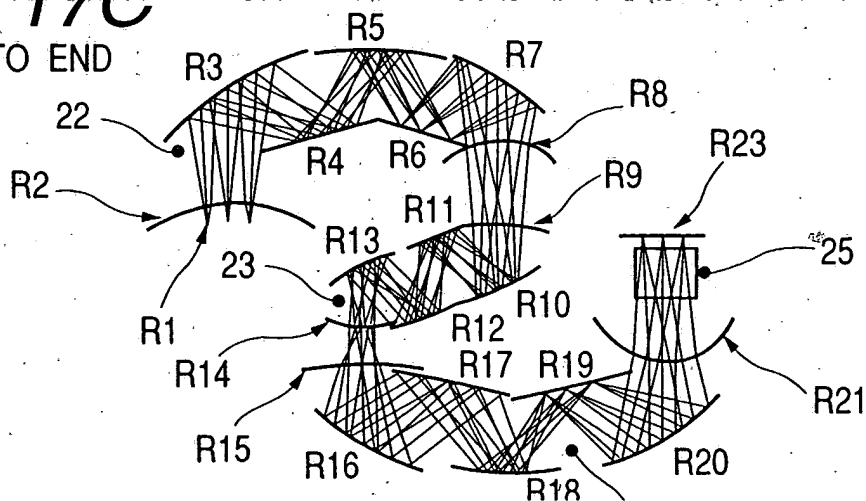
INTERMEDIATE  
POSITION

INTERMEDIATE  
IMAGE FORMING  
POSITION



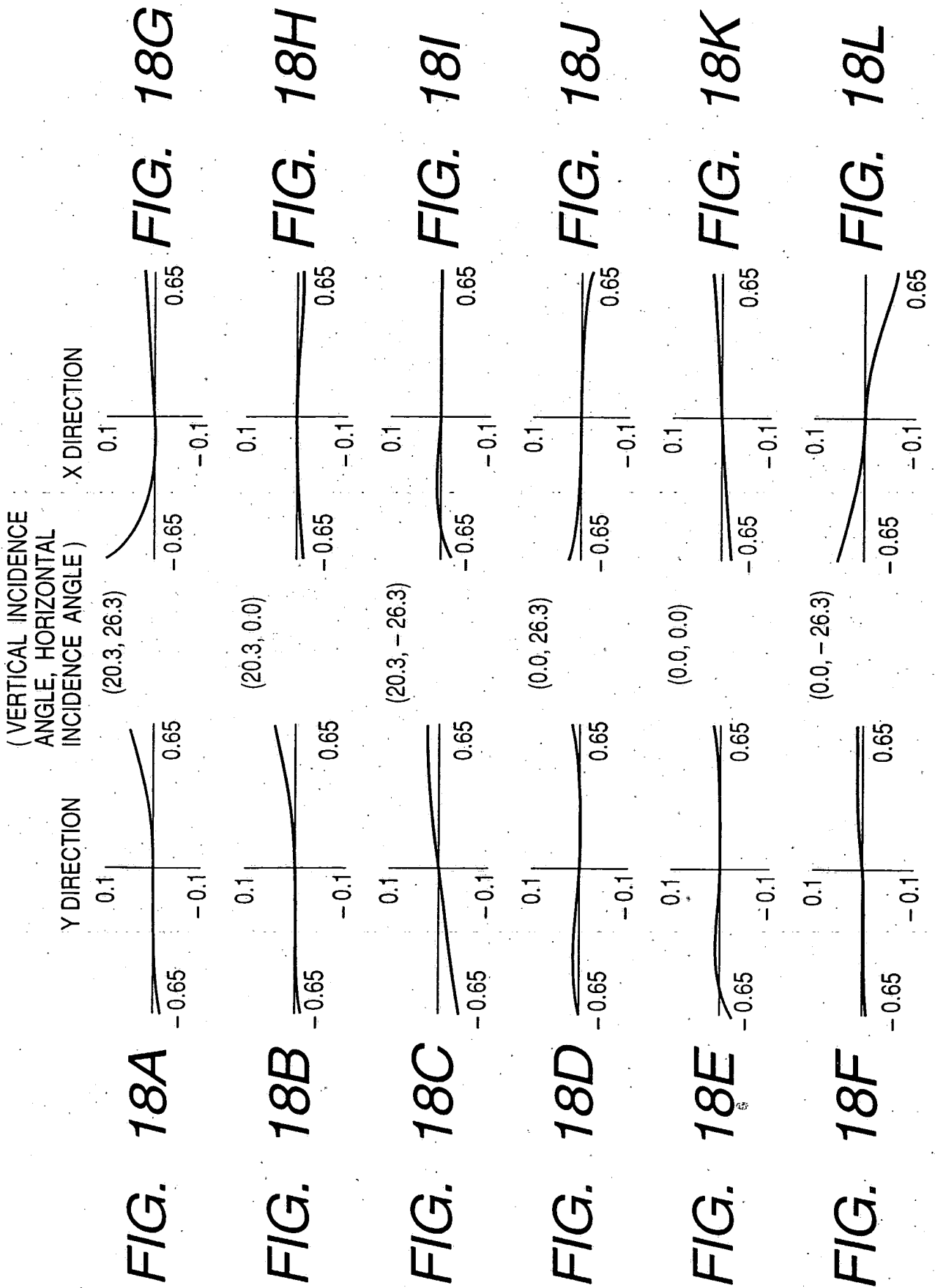
**FIG. 17C**

TELEPHOTO END



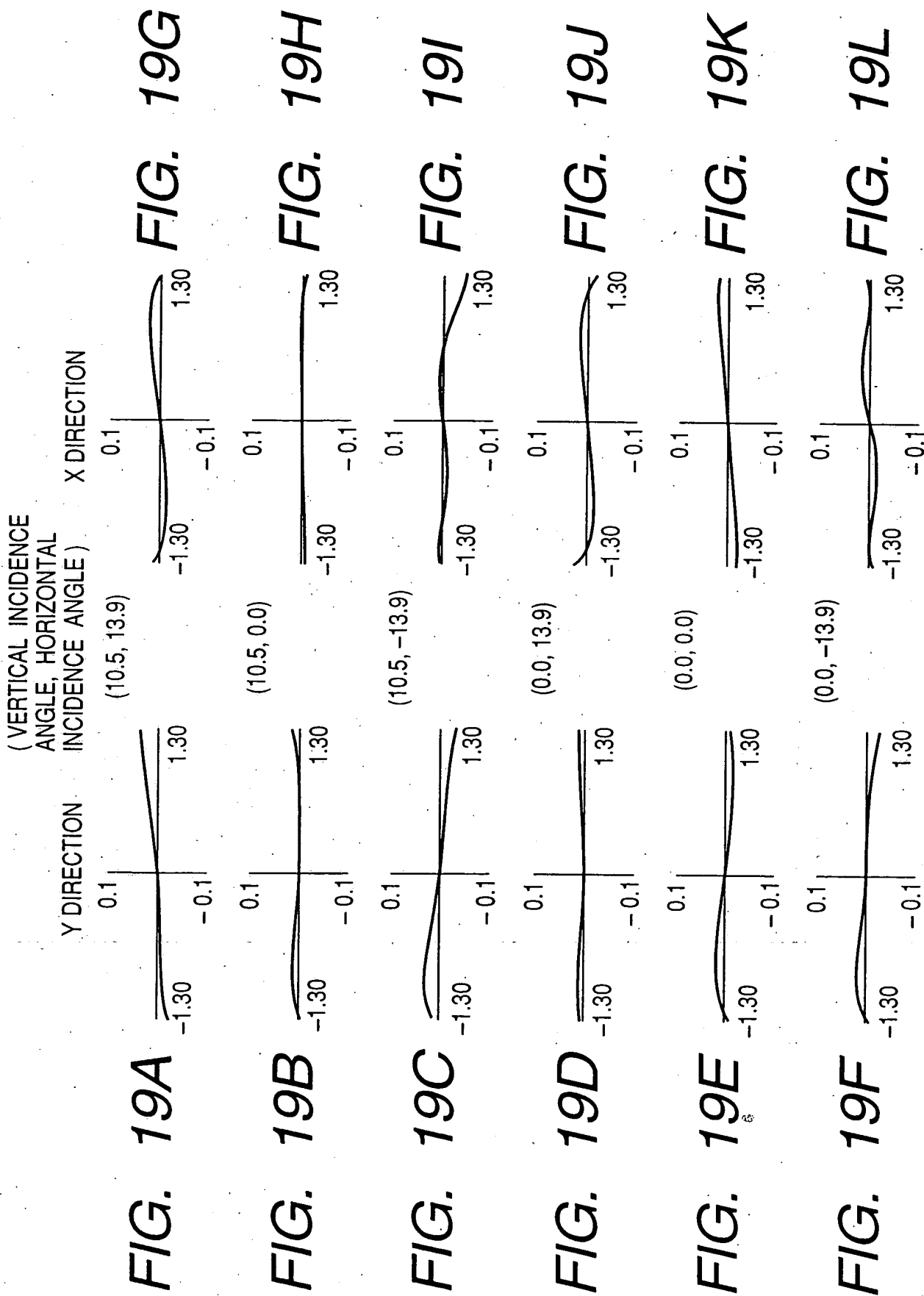
APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

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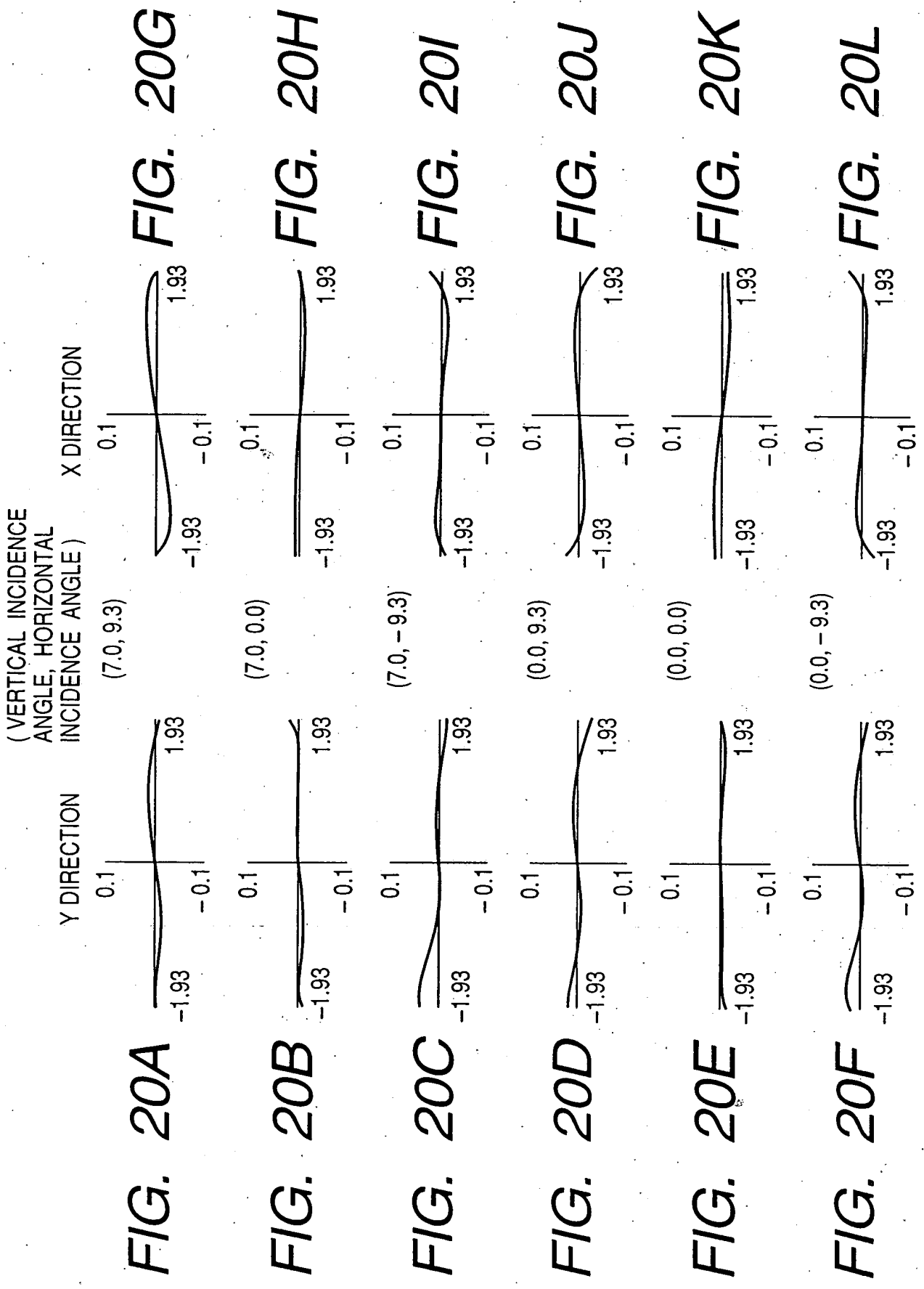
APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

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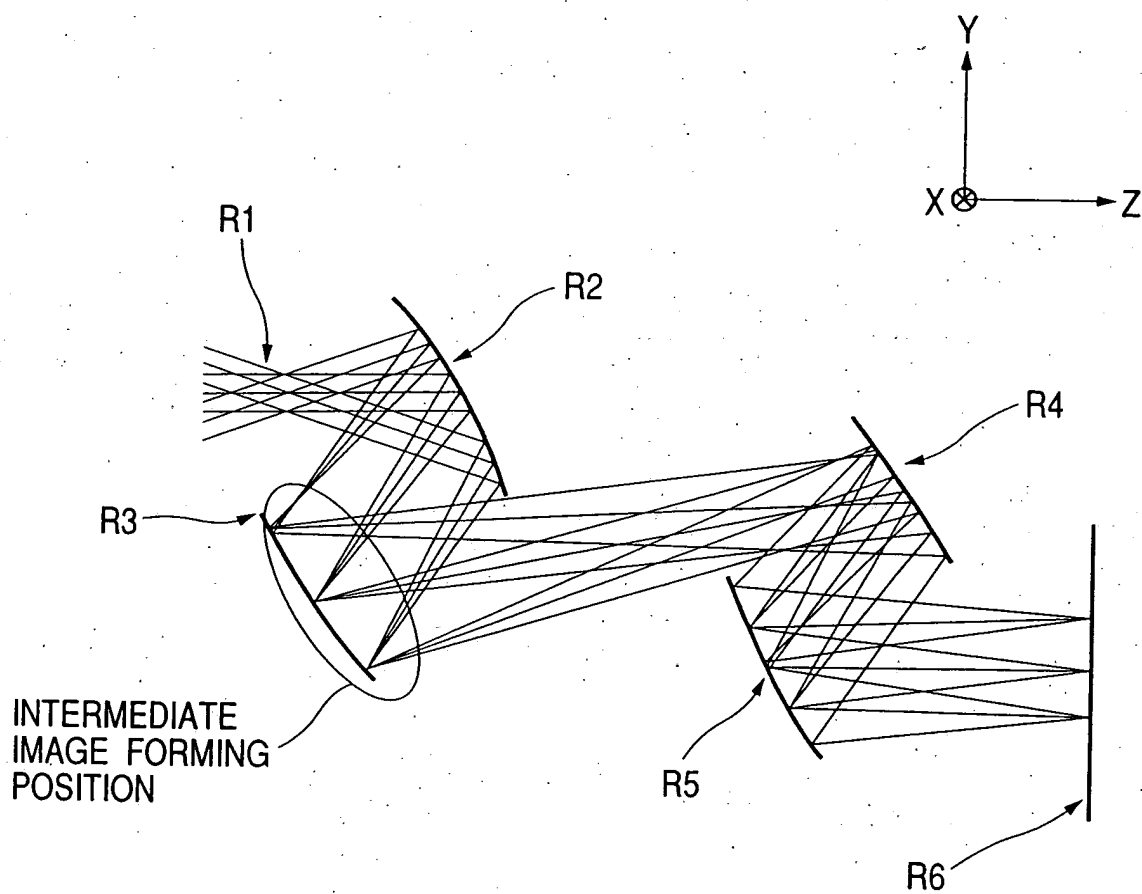
APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		



APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

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**FIG. 21**



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APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

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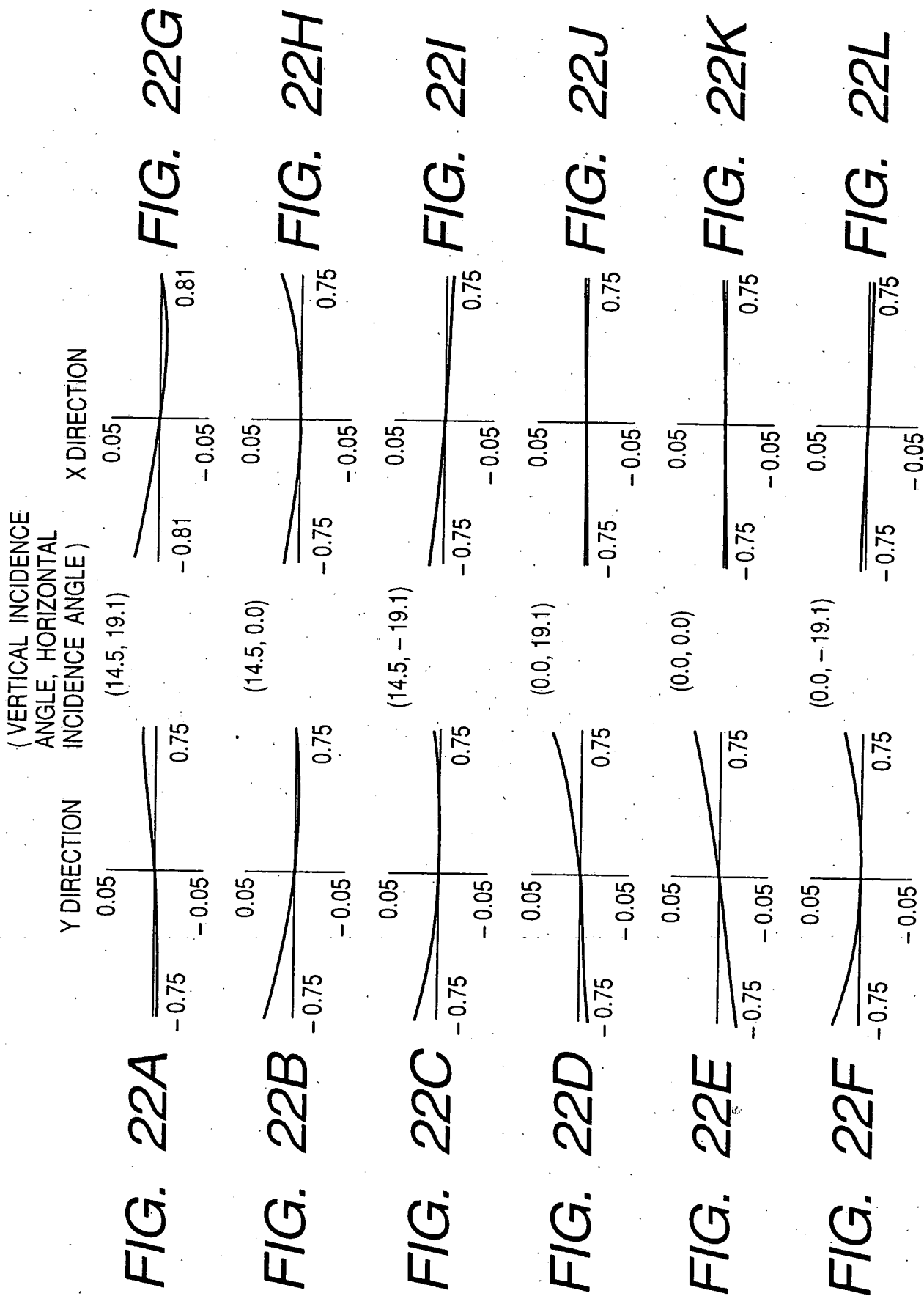
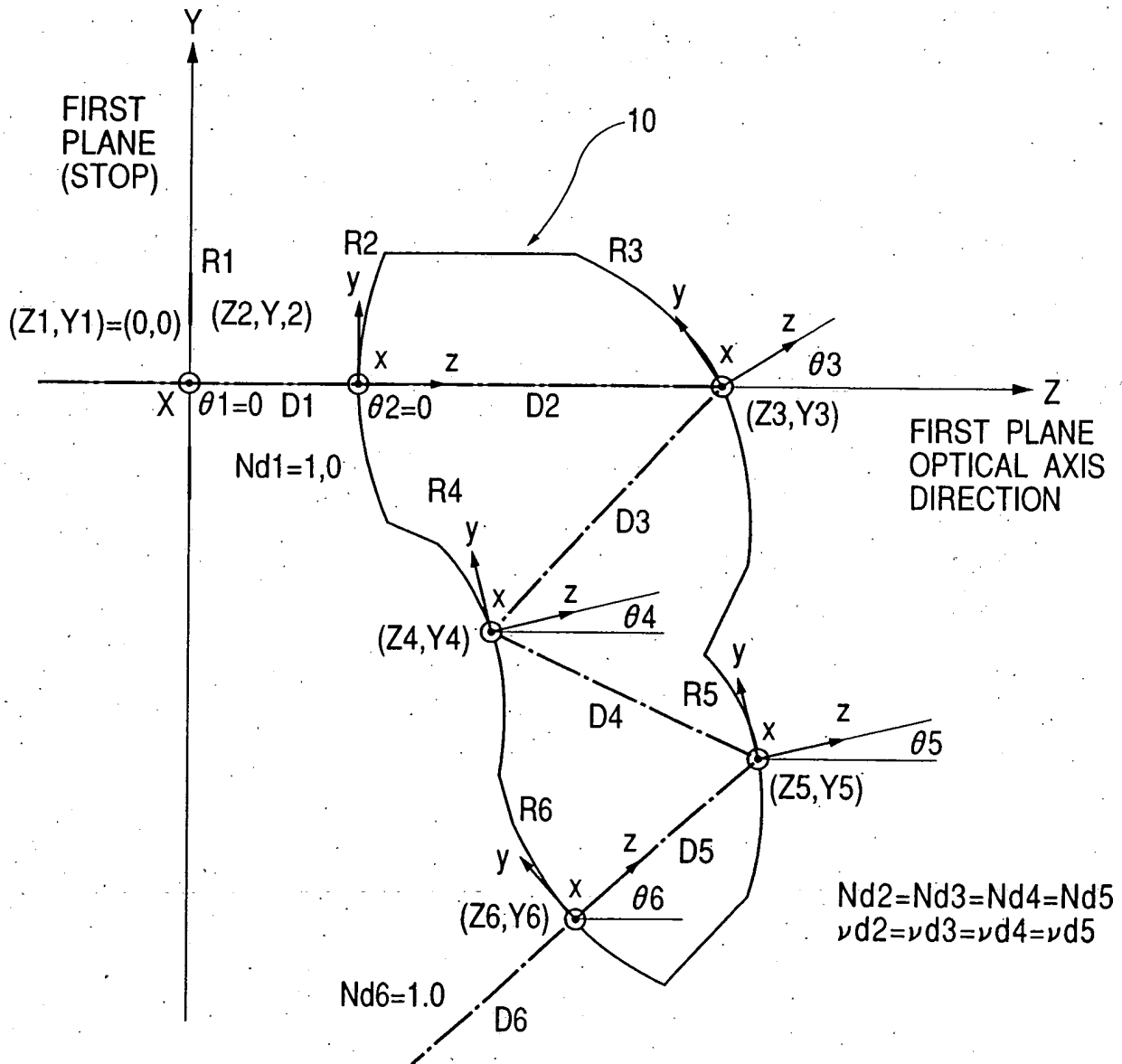


FIG. 23



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BY	CLASS	SUBCLASS
DRAFTSMAN		

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**FIG. 24**

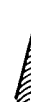
( HORIZONTAL VIEW ANGLE,  
VERTICAL VIEW ANGLE )

SMALLEST SPOT

( 0.0, 0.0 )



( 24.84, 31.68 )



0.50000 MM



**FIG. 25**

( HORIZONTAL VIEW ANGLE,  
VERTICAL VIEW ANGLE )

SMALLEST SPOT

( 0.0, 0.0 )



( 24.84, 31.68 )



0.50000 MM



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APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

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**FIG. 26**

( HORIZONTAL VIEW ANGLE,  
VERTICAL VIEW ANGLE )

SMALLEST SPOT

( 0.0, 0.0 )

( 24.84, 31.68 )

0.05000 MM

**FIG. 27**

( HORIZONTAL VIEW ANGLE,  
VERTICAL VIEW ANGLE )

SMALLEST SPOT

( 0.0, 0.0 )

( 24.84, 31.68 )

0.05000 MM

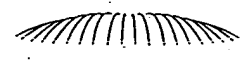
091237031 07241410

BY	D.G. FIG.	
DRAFTSMAN	CLASS	SUBCLASS

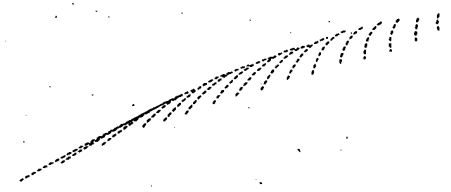
**FIG. 28**

( HORIZONTAL VIEW ANGLE, VERTICAL VIEW ANGLE ) LIGHT SPOT ON R3

( 0.0, 0.0 )



( 24.84, 31.68 )



0.50000 MM

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